

Well Information Management System (WIMS) Online Record Search

The Wellhead Protection Section is pleased to offer our database of well records online, with records dating back to November 1987. Anyone can access the online search at dnr.mo.gov/mowells. Some things to keep in mind when using the online search program:

- Wells are almost always listed by owner at the time the well was drilled.
- Latitudes and longitudes listed for wells drilled prior to 2006 are interpretations based on the legal description and may not be accurate.
- The program searches only for exact matches in the first word of a field or business name. For example, if looking for a record for the Missouri Department of Natural Resources, searching for "Natural Resources" would not yield any results.
- If you are looking for monitoring wells at a specific site, the most effective way to search is by using the Site Address field and entering only the street number.
- The latitude and longitude fields search for an exact match, but by entering only degrees and minutes, the program will return records with all possible seconds. This is all records within approximately a 1-mile area.
- The most effective way to find a domestic well record without the original owner's name is by using the Section, Township, and Range from the property's legal description.

Wellhead Protection Section staff are available to help answer questions if the online search does not return the desired results. Please contact us at 573-368-2165 with questions.

Wellhead Protection Section

We are here to ensure any new well drilled in Missouri is constructed to minimum standards as set by state regulations. This helps protect our groundwater resources from contamination due to poor well construction. We regulate the construction of private water wells (this includes domestic and multiple family class wells), irrigation wells, monitoring wells and heat pump wells. In addition, we regulate how to properly plug all types of wells. Our job is to balance the concerns of the land owner and the driller, while at the same time performing our overall directive of protecting Missouri's vast underground water supply from contamination due to improper construction and abandonment of wells.

Kyle Rollins selected as Wellhead Protection Section Chief

Following the promotion of Carey Bridges as Division of Geology and Land Survey's Geological Survey Program Director, Kyle Rollins was selected as the division's Wellhead Protection Section Chief. Kyle officially began duties August 13, 2012, and brings a wide variety of experience to the position. Having been with the department for 25 years, Kyle has worked in department Regional Offices, the Water Protection program's Public Drinking Water section, and most recently, the Geological Survey program. Kyle served in the Wellhead Protection section more than five years before accepting a position in the division's Economic Geology Section working with the oil and gas industry. Kyle graduated from Southwest Missouri State University (now, Missouri State University) in 1987 with a Bachelor of Science in Physical Geography with an emphasis in Environmental Science and Natural Resources. He also holds a restricted water well, monitoring well, heat pump and pump installation contractor's permit.



Well Installation Board News

The Missouri Well Installation Board's quarterly meeting scheduled for Friday, Aug. 24, 2012, was rescheduled and held Tuesday, Sept. 25, 2012, at the Missouri Department of Transportation office in Hannibal. The meeting date was changed because the Board was unsure whether many contractors would be able to attend due to the emergency drought assistance program and the amount of work the program afforded the industry. The date change was deemed necessary by the Board and department staff, who wanted to be sure anyone who wanted had an opportunity to participate in the meeting.

Future Meeting Date

The next Well Installation Board quarterly meeting is scheduled for 10 a.m., November 5, 2013, at the department's Annex Conference room, 111 Fairgrounds Road, Rolla.

Special Notice for Constructing Grade A Dairy Wells in Special Area 2: Sampling Port Issue Exists

According to the Missouri Well Construction Rules, 10 CSR 23-3.100(6)(D)3, all new wells and old wells that are being deepened are required to have a sampling port or tap (faucet, frost free hydrant, etc.) placed within 10 feet of the wellhead. There are several reasons for this requirement. The plumbing systems installed in older homes may be fragmented or there may be multiple wells on a single property. Installing the sampling port close to the well ensures the correct well is being purged and sampled. (Properly purging the well prior to sampling requires a fairly large volume of water to be pumped to the surface, with the sampling port outside as opposed to inside a basement or crawlspace the possibility of the water creating a problem for the landowner is reduced.) Also, having the sampling port as close to the source as possible reduces the possibility of an elevated lead or cadmium level from interaction with corroded house piping or faucets. The purpose of taking a sample is to get a volume of water that is representative of the water coming directly from the aquifer.

In Missouri, the construction and operation of "Grade A" dairies are regulated by the Missouri Milk Board, who inspect and routinely test the water supplies for dairies. The well for a Grade A dairy must be constructed to at least the standards required for a domestic well in that area.

Recently, a pump installation contractor brought an issue to the attention of division staff. A conflict appears to exist between the Missouri Well Construction Rules and the Missouri Milk Board regarding the sampling port. Currently, the Missouri Milk Board requires the closest faucet, tap or port be placed more than 10 feet from the wellhead itself. Placing a faucet closer than 10 feet to the wellhead could result in the dairy losing points during their inspection. Staff with the Division of Geology and Land Survey's Wellhead Protection Section are working with the Missouri Milk Board to resolve this issue.

Until this conflict is resolved, to ensure that the dairy operators maintain their Grade A status, the well drilling and pump installation contractors must contact the Wellhead Protection section to request a variance to install the sampling port more than 10 feet from the wellhead. Staff will determine if a variance should be granted and, if necessary, will issue a variance. The following information is required to request a variance: the contractor's permit number, location of the well, well owner's name and mailing address, and the proposed distance from the wellhead to the port or faucet.

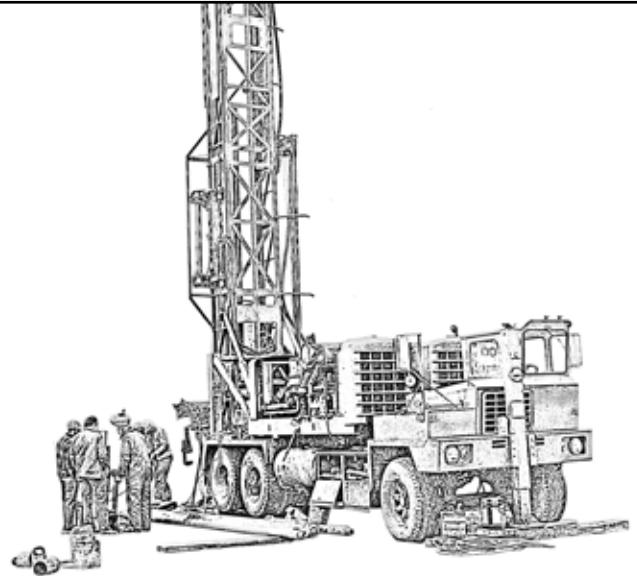
Until a resolution is completed, this issue may cause the landowner to fail a Grade A Dairy inspection. If possible, the port should still be within 15 to 20 feet of the wellhead. The contractor should still consider the location of the port so that a sample can be taken and the produced water can be diverted so it does not cause a problem for the landowner. Please contact Wellhead Protection Section staff if questions arise.

Drought Assistance Information

Following the Governor's Executive Order 12-08, Wellhead Protection section staff received a large number of questions and well certification and registration forms. Figures noted below as of September 28, 2012.

Incoming calls to staff from landowners, contractors, various state agencies, and others: 2,747

Cost share certification/registration records received: 1,181



Wellhead Protection Section Staff

Wellhead Protection Section: 573-368-2165.

Website: dnr.mo.gov/geology/geosrv/wellhd/job.htm

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Welcome

The following individuals are now part of the Department of Natural Resources-permitted contractor community:

ARCADIS – Matthew Bauer, Joel Nanny
AST Environmental – William Brab
Burns & McDonnell – Kevin Fagon, Sam Woodland,
Brian Hoye, Daniel Earhart, Lewis Turner
Countryside Service – Charles Cooper
Double J Energy – Charles Heckert
Environmental Works – Blake Schroeder
GEO Consultants LLC – James Ballard
Hoffmann Brothers – Gary Zastrow
Kennedy/Jenks Consultants – Marina Jacobe
Shannon & Wilson – Mark Wieners
SKS Engineers LLC – William Baldwin
Southern Environmental Management – Charles Thibault
Terracon – Joseph Cushing

Farewell

The following individuals are no longer permitted to operate as contractors according to the Water Well Drillers Act and Missouri Well Construction Regulations:

Brotcke Well & Pump – Michael Schaake
Darling, Jeffrey
EJC Enterprises – Edward Close
Enviroguard Drilling – Daniel Bandimere
GalantiElectrical- John Galanti
Golder Associates – Patrick Umphenour
Hon Heating & Cooling – Steven Hon
K J Unnerstall Const – Chad Sieve
Kaiser, Seth
Kaskaskia Engineering – George Jamison
Lueker's Pump – Dan Lueker
MODNR – J Blake Smotherman, Mike Dandurand
PSA Environmental – Jeffrey Crawford, Kenneth Doane Jr
Reitz & Jens – Donald Eskridge
Tremont Exploration – Douglas Hischke
Vanaken, Michael

Liners in Public Wells

In many cases, a well may require the installation of a liner. Liners have many uses, such as holding back broken formations, sealing out problem areas, or preventing water quality issues associated with high static water levels in steel casing. The Missouri Well Construction Rules (MWCR) address the installation of liners in domestic and multifamily wells.

The construction standards for public wells are more stringent than those for domestic and multifamily wells. MWCR (10 CSR 23-1.030) requires that public wells be constructed according to the Safe Drinking Water Act. Community and non-transient non-community public wells must have engineering plans approved in advance, and the installation of a liner should be covered in the project's engineering plan.

A potential issue arises when it is necessary or prudent to install a liner in a transient non-community public well.

Welcome

The following individuals are now part of the Department of Natural Resources-permitted apprentice contractor community:

B & H Well Drlg – Jesse Borgmeyer, Dustin Shockley
Brotcke Well & Pump – Ryan Prater
Deep Well Pump Sales – Mathew Beauchamp
Durbin Enterprises – Raymond Stefanski, Jared Miller
Energy America Construction – William Smith,
Kirby McKenzie
Geotechnology – Ronald Miller
Layne Christensen – Douglas Assennacher
Lavy's Water Well – Darla Lavy
Midwest Hydro – Elliot Lewis, Paul Holek,
Steven Young, Matthew Luther
Quality Heating & Air – Josh Ogle
Sunbelt – Dylan Hall

Rule Update

Three Missouri Well Construction Rule amendments are moving through the rulemaking process. Draft rules are available online [dnr.mo.gov/geology/geosrv/geo-rules-in-dev.htm].

The Well Installation Board voted, at its September meeting, to approve the draft language of the Disciplinary Action and Appeal Procedures (10 CSR 23-1.075) rule. The proposed language clarifies the procedure to file an appeal with the Well Installation Board. The proposal will be filed with the Secretary of State's Office and will be printed in the Missouri Register in the fall.

Staff will begin conducting further stakeholder meetings regarding the heat pump rulemaking (10 CSR 23-5.010 – 10 CSR 23-5.080) to receive comments on the draft rule language.

The rulemaking regarding the Continuing Education Program is in the beginning stages. Information regarding this topic will be made available as the rulemaking progresses.

For more information regarding these rulemakings or the rule-making process, please contact Sheri Fry at 573-368-2115.

Transient non-community systems do not usually require engineering plans. However, as the installation of liners is not covered in Standards for *Non-Community Public Water-Supplies*, contractors must contact the Department of Natural Resources' Public Drinking Water Branch and speak with staff in the Infrastructure Permits and Engineering Unit at 800-361-4827 before proceeding.

The Public Drinking Water Branch is updating its rules regarding the construction of public wells. The current design guides, *Design Guide for Community Water Systems and the Standards for Non-Community Public Water-Supplies* will be merged into a single document. The draft version is available online [dnr.mo.gov/env/wpp/pdwb/permits.htm].

For information regarding these changes, contact Ryan Seabaugh at 573-751-8628 or P.O. Box 176 Jefferson City, MO 65102-0176.

The Connection is published by the Missouri Department of Natural Resources' Division of Geology and Land Survey. Suggestions, ideas and comments concerning this newsletter are welcome. Send comments to: Missouri Department of Natural Resources' Division of Geology and Land Survey, Wellhead Protection Section, PO Box 250, Rolla, MO 65402-0250, Phone: 573-368-2165 or Fax: 573-368-2317

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